This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4769	
10/051,293	01/22/2002	Yutaka Nakata	045237-0102		
22428	7590 03/31/2003				
	D LARDNER	EXAMINER			
SUITE 500 3000 K STRE		TSIDULKO, MARK			
WASHINGI	ON, DC 20007		ART UNIT	PAPER NUMBER	
			2875		
			DATE MAILED: 03/31/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)	V			
	10/051,293		NAKATA, YUTAKA				
Office Action Summary	Examiner		Art Unit				
TI MANUSCO DATE AND COMMENT	Mark Tsidul	3	2875	trace			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event y within the statuto will apply and will e	, however, may a reply be timery minimum of thirty (30) day expire SIX (6) MONTHS from the tion to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	mmunication.			
Status							
1) Responsive to communication(s) filed on 22 J							
,	is action is n		resecution as to the	e merits is			
3) Since this application is in condition for allowed closed in accordance with the practice under Disposition of Claims	Ex parte Qua	ayle, 1935 C.D. 11, 4	153 O.G. 213.	e mento io			
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	wn from cons	sideration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	,						
7) Claim(s) is/are objected to.		•					
8) Claim(s) are subject to restriction and/o	or election red	quirement.					
Application Papers							
9) The specification is objected to by the Examine			h Ab a Evansinas				
10) ☐ The drawing(s) filed on 22 January 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign	n priority und	er 35 U.S.C. § 119(a	a)-(d) or (f).				
a)⊠ All b)⊡ Some * c)⊡ None of:							
1.⊠ Certified copies of the priority document	ts have been	received.					
2. Certified copies of the priority document	ts have been	received in Applicat	ion No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) ☐ Acknowledgment is made of a claim for domest	ic priority und	der 35 U.S.C. § 119(e) (to a provisiona	l application)			
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 	ovisional app tic priority un	lication has been red der 35 U.S.C. §§ 120	ceived. 0 and/or 121.				
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)			y (PTO-413) Paper No Patent Application (PT				

Art Unit: 2875

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: "horizontal ling" (page 19, line 17) should be changed to "horizontal line". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakata (US 6,527,425).

Referring to Claim 1 Nakata discloses (Fig.1B) a lamp device having:

a light source [1];

Art Unit: 2875

- a reflector in which a reflection surface is a free curved surface (col.8, lines 10-13).

 Reflected light by the reflector transmitting through the lens so as to be irradiated in accordance with a target light distribution pattern (Abstract);
- a lens formed in a convex shape in a vertical and horizontal cross section (because has circular form, see Fig.12, [100]).

Referring to Claims 3, 4 Nakata discloses a lamp device for vehicle wherein a free curved surface formed on the reflection surface of the reflector is a non-uniform rational B-spline surface (NURBS) (col.6, lines 27-31).

Referring to Claims 5-8 Nakata discloses a torus curved surface is used for a surface of the lens and a back surface thereof (col.6, lines 21-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakata (US 6,527,425) In view of Albou (US 6,123,440).

Art Unit: 2875

Nakata discloses the instant claimed invention except for reflector's vertical and horizontal cross sections are formed in hyperboloidal surface smaller than the lens.

Albou discloses (Fig.1) hyperbolic type reflector [102] smaller than the lens [103]. The reflector has internal and external focuses, the light source being placed in a region of the internal focus so that the latter forms a virtual light source in the region of the focus of the lens (Abstract).

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the device of Nakata with hyperbolic type reflector as taught by Albou in order to obtain a virtual light source in the region of the focus of the lens.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (703)308-1326. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Sandra O'Shea

Page 4

Supervisory Patent Examiner Technology Center 2800

Art Unit: 2875

M.T. March 20, 2003